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1 PPFS: a high performance portable parallel file system   98%
James V. Huber , Andrew A. Chien , Christopher L. Elford , David S. Blumenthal , Daniel A.
Reed
Proceedings of the 9th international conference on Supercomputing July 1995

2 HFS: a performance-oriented flexible file system based on building-block compositions   95%
Orran Krieger , Michael Stumm
ACM Transactions on Computer Systems (TOCS) August 1997
Volume 15 Issue 3
The Hurricane File System (HFS) is designed for (potentially large-scale) shared-memory
multiprocessors. Its architecture is based on the principle that, in order to maximize
performance for applications with diverse requirements, a file system must support a wide
variety of file structures, file system policies, and I/O interfaces. Files in HFS are implemented
using simple building blocks composed in potentially complex ways. This approach yields great
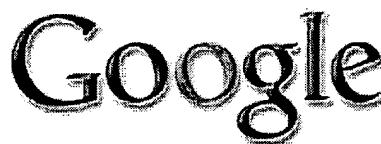flexibility, allowing an application ...

3 The Vesta parallel file system   95%
Peter F. Corbett , Dror G. Feitelson
ACM Transactions on Computer Systems (TOCS) August 1996
Volume 14 Issue 3
The Vesta parallel file system is designed to provide parallel file access to application programs
running on multicomputers with parallel I/O subsystems. Vesta uses a new abstraction of files:
a file is not a sequence of bytes, but rather it can be partitioned into multiple disjoint sequences
that are accessed in parallel. The partitioning—which can also be changed
dynamically—reduces the need for synchronization and coordination during the access.
Some control over the layout ...

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... the **inode** Those "pointers" are called hard links in **UNIX** ... directories to point
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Operating Systems Lecture Notes Lecture 13 File System ...
... Default policy: allocate 1 **inode** per 2048 bytes ... The **Unix** utilities try to avoid this
problem ... accessed sequentially, so can optimistically **prefetch** disk blocks ...
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... **UNIX** does this through the concept of "links". ... by having multiple directory entries
point to same **inode** • Question: how to ... How much should one **prefetch**? ...
www-inst.eecs.berkeley.edu/~cs162/Lectures/L18.pdf - Similar pages

[PS] **PREFETCHING** AND CACHING METADATA IN A DISTRIBUTED NFSSERVER
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... When a **UNIX** user type "ls -l directory " to browse a ... We **prefetch** the attributes and
file handles in a ... An **Inode** information may be cached on multiple machines. ...
chooyu.cs.uiuc.edu/~liuwei/papers/prefetch.ps - Similar pages

Citations: A trace-driven analysis of the **Unix** - Ousterhout, Costa ...
... 1 In **Unix** jargon, the **inode** is the file descriptor ... A trace-driven analysis of the
unix 4.2 bsd file ... server capacity wasted when **prefetch** decisions inevitably ...
citeseer.nj.nec.com/ cs?q=dbnum%3D1%2CGID%3D19987%2CDID%3D0%2Cstart%3D50%2Ccluster%
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... cylinder group as the le s **inode** Whenever an ... Multics supported **prefetching** Feiertag
as did **Unix** Ritchie Earlier ... better predict which blocks to **prefetch** Gri oen ...

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... section presented an idealized algorithm for **prefetch**- ing in ... PGMS by taking the
Digital-**UNIX**-based GMS ... of the IP address, de- vice number, **inode** number, and ...
www.cs.princeton.edu/courses/archive/ fall03/cs518/papers/gms.pdf - Similar pages

[PS] Why does file system **prefetching** work? Elizabeth Shriver ...
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... from the same cylinder group as the file's **inode**. ... supported **prefetching** [Feiertag72],
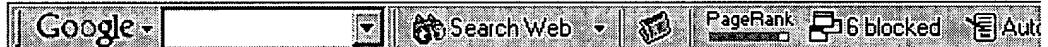as did **Unix** [Ritchie78 ... predict which blocks to **prefetch** [Griffioen94, Lei97 ...
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